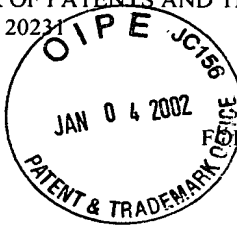


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Sheet 1 of 5

In the Application of CHEN et al.

Serial No.: 09/710,104

Art Unit: 1648

Filed: 9 November 2000

Examiner: S. Brown

Title: INDUCTION OF MUCOSAL IMMUNITY BY VACCINATION VIA THE SKIN ROUTE

U.S. PATENT DOCUMENTS

| Exam. Init. | Ref. Desig. | Document No. | Date     | Name                 | Class | Sub Class                     | Filing Date |
|-------------|-------------|--------------|----------|----------------------|-------|-------------------------------|-------------|
| SAB         | AA-1        | 4,945,050    | 7/31/90  | Sanford et al.       | 435   | 172.1                         |             |
| SAB         | AB-1        | 5,100,792    | 3/31/92  | Sanford et al.       | 435   | 172.1                         |             |
| SAB         | AC-1        | 5,120,657    | 6/9/92   | McCabe et al.        | 435   | 287                           |             |
| SAB         | AD-1        | 5,149,655    | 9/22/92  | McCabe et al.        | 435   | 287                           |             |
| SAB         | AE-1        | 5,204,253    | 4/20/93  | Sanford et al.       | 435   | <del>604</del> <del>204</del> | 172.3       |
| SAB         | AF-1        | 5,346,481    | 9/13/94  | Bunin                | 604   | 204                           |             |
| SAB         | AG-1        | 5,503,632    | 4/2/96   | Haak                 | 604   | <del>424</del> <del>491</del> | 20          |
| SAB         | AH-1        | 5,569,468    | 10/29/96 | Modi                 | 424   | 491                           |             |
| SAB         | AI-1        | 5,584,807    | 12/17/96 | McCabe               | 604   | 71                            |             |
| SAB         | AJ-1        | 5,589,466    | 12/31/96 | Felgner et al.       | 514   | 44                            |             |
| SAB         | AK-1        | 5,630,796    | 5/20/97  | Bellhouse et al.     | 604   | 49                            |             |
| SAB         | AL-1        | 5,718,913    | 2/17/98  | Dhuique-Mayer et al. | 424   | 449                           |             |
| SAB         | AM-1        | 5,738,852    | 4/14/98  | Robinson et al.      | 424   | 199.1                         |             |
| SAB         | AN-1        | 5,780,448    | 7/14/98  | Davis                | 514   | 44                            |             |
| SAB         | AO-1        | 5,785,688    | 7/28/98  | Joshi et al.         | 604   | 141                           |             |
| SAB         | AP-1        | 5,840,336    | 11/24/98 | Hsu et al.           | 424   | 484                           |             |
| SAB         | AQ-1        | 5,865,796    | 2/2/99   | McCabe               | 604   | 71                            |             |
| SAB         | AR-1        | 5,871,460    | 2/16/99  | Phipps et al.        | 604   | 20                            |             |
| SAB         | AS-1        | 5,871,751    | 2/16/99  | Christensen et al.   | 424   | 234.1                         |             |

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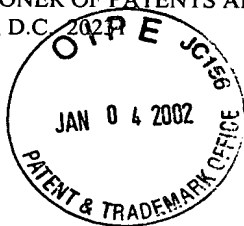
*Stacy S. Brown*

Date Considered:

*March 18, 2002*

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| Exam. Init. | Ref. Desig. | Document No. | Date      | Name               | Class | Sub Class | Filing Date |
|-------------|-------------|--------------|-----------|--------------------|-------|-----------|-------------|
| 82B         | AT-1        | 5,900,238    | 5/4/99    | Gombotz et al.     | 424   | 184.1     |             |
| 82B         | AU-1        | 5,919,463    | 4/6/99    | Thomas, Jr. et al. | 424   | 239.1     |             |
| 82B         | AV-1        | 5,968,006    | 10/19/99  | Hofmann            | 604   | 20        |             |
| 82B         | AW-1        | 5,983,130    | 11/9/99   | Phipps et al.      | 604   | 20        |             |
| 82B         | AX-1        | 5,989,586    | 11/23/99  | Hsu et al.         | 424   | 449       |             |
| 82B         | AY-1        | 6,008,200    | 12/28/99  | Krieg              | 514   | 44        |             |
| 82B         | AZ-1        | 6,009,345    | 12/28/99  | Hofmann            | 604   | 20        |             |
| 82B         | AA-2        | 6,010,705    | 1/4/2000  | Thune et al.       | 424   | 234.1     |             |
| 82B         | AB-2        | 6,049,733    | 4/11/2000 | Phipps et al.      | 604   | 20        |             |
| 82B         | AC-2        | 6,168,587    | 1/2/01    | Bellhouse et al.   | 604   | 522       |             |
| 82B         | AD-2        | 6,194,389    | 2/27/01   | Johnston et al.    | 514   | 44        |             |

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Title: INDUCTION OF MUCOSAL IMMUNITY BY VACCINATION VIA THE SKIN ROUTE

## FOREIGN PATENT DOCUMENTS

| Exam.<br>Init. | Ref.<br>Desig. | Document No. | Publication<br>Date | Country or<br>Patent Office | Class | Sub<br>Class | Translation |    |
|----------------|----------------|--------------|---------------------|-----------------------------|-------|--------------|-------------|----|
|                |                |              |                     |                             |       |              | YES         | NO |
| SB             | AE-2           | WO 94/24263  | 10/27/94            | PCT                         | —     | —            |             |    |
| SB             | AF-2           | WO 96/02555  | 2/1/96              | PCT                         | —     | —            |             |    |
| SB             | AG-2           | WO 96/04947  | 2/22/96             | PCT                         | —     | —            |             |    |
| SB             | AH-2           | WO 96/12513  | 5/2/96              | PCT                         | —     | —            |             |    |
| SB             | AI-2           | WO 96/14855  | 5/23/96             | PCT                         | —     | —            |             |    |
| SB             | AJ-2           | WO 96/20022  | 7/4/96              | PCT                         | —     | —            |             |    |
| SB             | AK-2           | WO 97/44446  | 11/27/97            | PCT                         | —     | —            |             |    |
| SB             | AL-2           | WO 97/48485  | 12/24/97            | PCT                         | —     | —            |             |    |
| SB             | AM-2           | WO 98/10750  | 3/19/98             | PCT                         | —     | —            |             |    |
| SB             | AN-2           | WO 98/20734  | 5/22/98             | PCT                         | —     | —            |             |    |
| SB             | AO-2           | WO 99/27961  | 6/10/99             | PCT                         | —     | —            |             |    |
| SB             | AP-2           | WO 99/33488  | 7/8/99              | PCT                         | —     | —            |             |    |

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Examiner: S. Brown

Title: INDUCTION OF MUCOSAL IMMUNITY BY VACCINATION VIA THE SKIN ROUTE

## OTHER DOCUMENTS (including Author, Date, Journal, Volume, Pertinent Pages, etc.)

| Exam. Init. | Ref. Desig. | Description  |
|-------------|-------------|--|
| SJB         | AQ-2        | Lobb, C.J. (1987) <i>Developmental and Comparative Immunology</i> <u>11</u> :727-738 (abstract only)                   |
| SJB         | AR-2        | Hart et al. (1988) <i>Developmental and Comparative Immunology</i> <u>12</u> :453-480 (abstract only)                  |
| SJB         | AS-2        | Dickerson et al. (1988) <i>Immunological Reviews</i> <u>166</u> :377-384 (abstract only)                               |
| SJB         | AT-2        | Orkin et al. (1995) "Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy" |
| SJB         | AU-2        | Paul et al. (1995) <i>Eur. J. Immunology</i> <u>25</u> :3521-3524  |
| SJB         | AV-2        | Krieg et al. (1995) <i>Nature</i> <u>374</u> :546-549  |
| SJB         | AW-2        | Sato et al. (1996) <i>Science</i> <u>273</u> :352-354  |
| SJB         | AX-2        | Wooldridge et al. (1997) <i>Blood</i> <u>89</u> :2994-2998   |
| SJB         | AY-2        | Klinman, D.M. (1998) <i>Antisense and Nucleic Acid Drug Development</i> <u>8</u> :181-184                              |
| SJB         | AZ-2        | Krieg, A. (1998) <i>Biodrugs</i> <u>10</u> :341-346  |
| SJB         | AA-3        | MacFarlane et al. (1998) <i>J. Immunology</i> <u>160</u> :1122-1131  |
| SJB         | AB-3        | Glenn et al. (1998) <i>J. Immunology</i> <u>161</u> :3211-3214 (abstract only)   |
| SJB         | AC-3        | Guy et al. (1998) <i>Vaccine</i> <u>16</u> :850-856 (abstract only)  |
| SJB         | AD-3        | McCluskie et al. (1998) <i>J. Immunology</i> <u>161</u> :4463-4466   |

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| Exam. Init. | Ref. Desig. | Description  |
|-------------|-------------|--|
| SSB         | AE-3        | Sparwasser et al. (1998) <i>J. Immunology</i> <u>28</u> :2045-2054   |
| SSB         | AF-3        | Porter et al. (1998) <i>Archives of Virology</i> <u>143</u> :997-1003  |
| SSB         | AG-3        | Moldoveanu et al. (1998) <i>Vaccine</i> <u>16</u> :1216-1224   |
| SSB         | AH-3        | Paul et al. (1998) <i>Vaccine</i> <u>16</u> :188-195   |
| SSB         | AI-3        | Spiegelberg et al. (1998) <i>Allergy</i> <u>53</u> :93-97  |
| SSB         | AJ-3        | Weiner et al. (1998) <i>Proceedings of the American Association of Cancer Research</i> <u>39</u> :551, col. 1, abstract number 3747                  |
| SSB         | AK-3        | Vinner et al. (1999) <i>Vaccine</i> <u>17</u> :2166-2175   |
| SSB         | AL-3        | McCluskie et al. (1999) <i>Critical Reviews in Immunology</i> <u>19</u> :303-329   |
| SSB         | AM-3        | Scharton-Kersten et al. (1999) <i>Vaccine</i> <u>17</u> (suppl. 2):S37-S43   |
| SSB         | AN-3        | McCluskie et al. (1999) <i>Vaccine</i> <u>18</u> :231-237  |
| SSB         | AO-3        | Glenn (1999) <i>Infection and Immunity</i> <u>67</u> :1100-1106  |
| SSB         | AP-3        | Glenn et al. (1999) "Advances in vaccine delivery: transcutaneous immunisation," <i>Expert Opinion On Investigational Drugs</i> <u>8</u> (6):797-805 |
| SSB         | AQ-3        | Babiuk et al. (2000) <i>J. Controlled Release</i> <u>66</u> :199-214   |

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